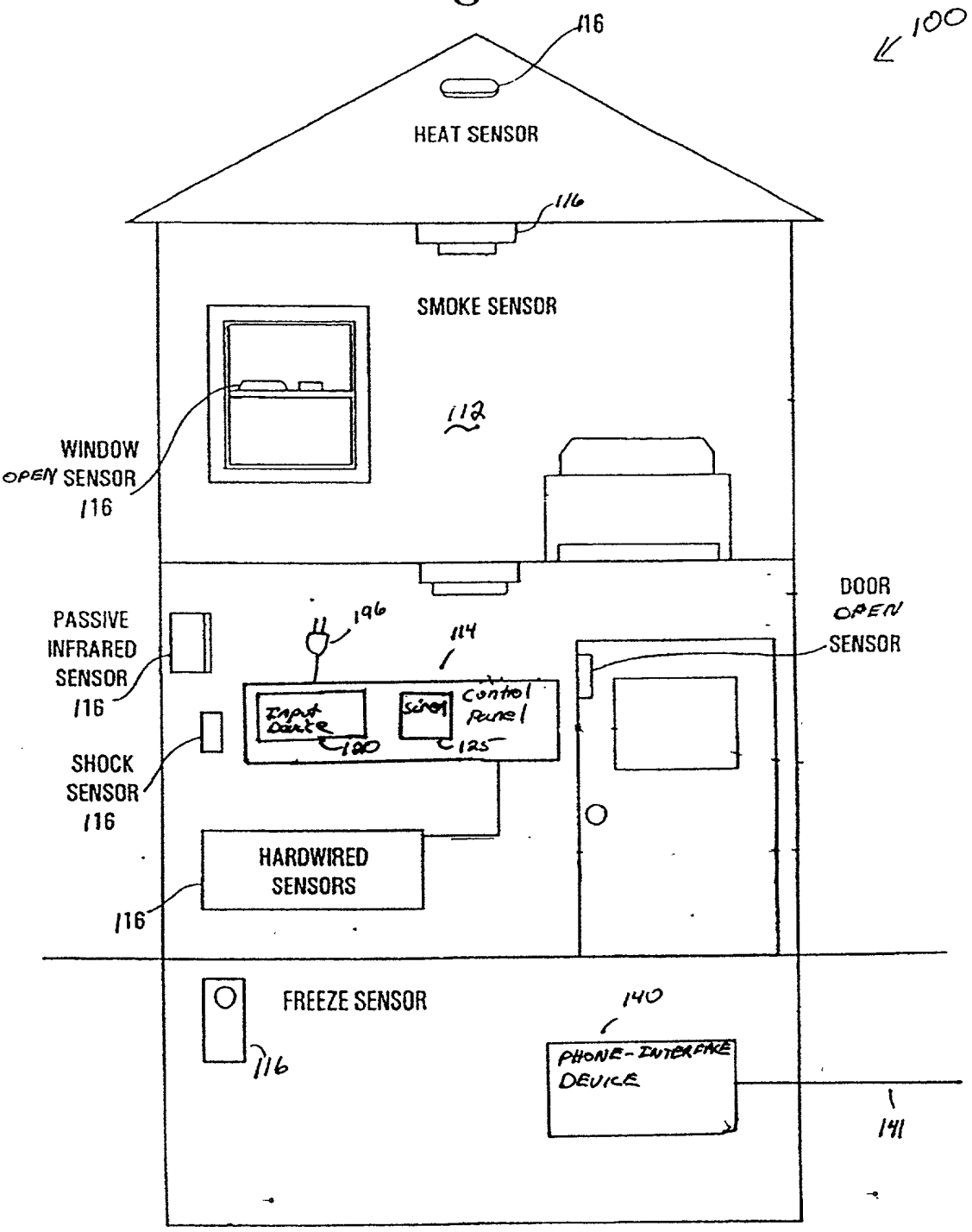
Fig.1


100
116
HEAT SENSOR
116
SMOKE SENSOR
112
WINDOW
OPEN SENSOR
116
PASSIVE
INFRARED
SENSOR
116
196
114
Input Device
120
Screen
Control Panel
125
DOOR
OPEN
SENSOR
SHOCK
SENSOR
116
HARDWIRED
SENSORS
116
FREEZE SENSOR
116
140
PHONE-INTERFACE
DEVICE
141

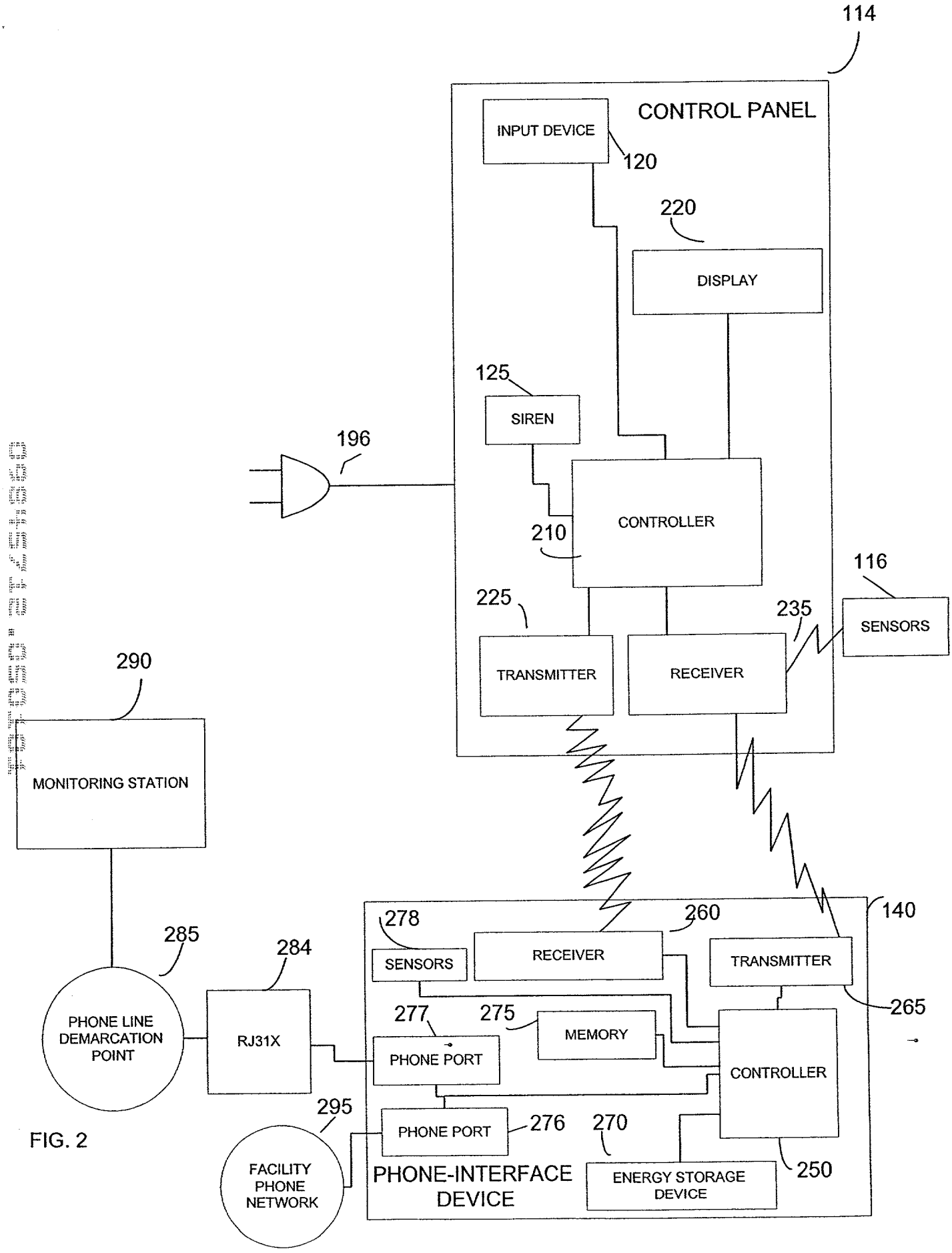

114
CONTROL PANEL
INPUT DEVICE
120
220
DISPLAY
125
SIREN
196
CONTROLLER
210
116
225
235
SENSORS
TRANSMITTER
RECEIVER
290
MONITORING STATION
140
278
260
285
284
SENSORS
RECEIVER
TRANSMITTER
265
277
275
MEMORY
PHONE LINE DEMARCATION POINT
RJ31X
PHONE PORT
CONTROLLER
295
PHONE PORT
276
270
FACILITY PHONE NETWORK
PHONE-INTERFACE DEVICE
ENERGY STORAGE DEVICE
250

FIG. 2

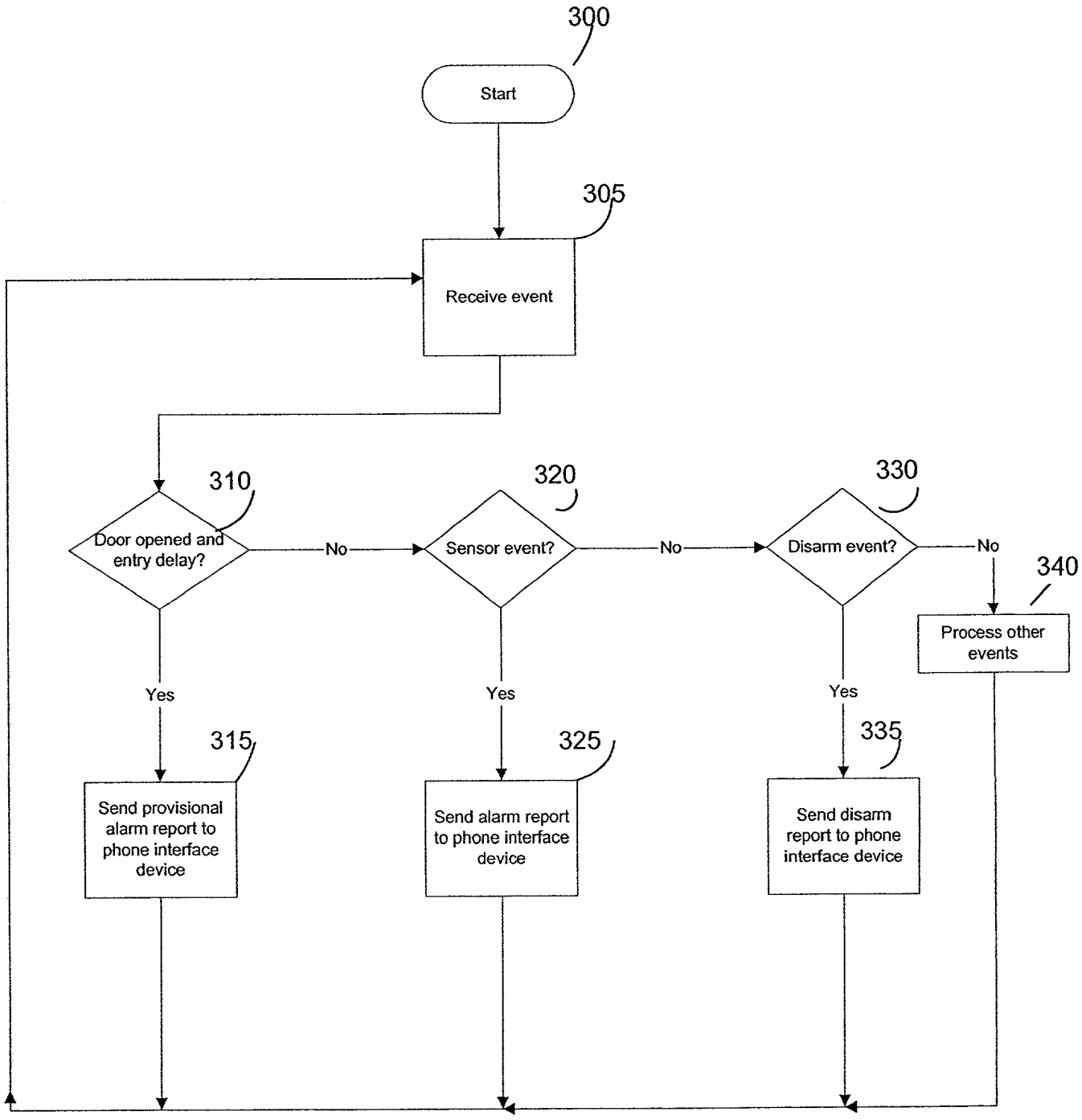

300
Start
305
Receive event
310
Door opened and entry delay?
No
320
Sensor event?
No
330
Disarm event?
No
340
Process other events
Yes
315
Send provisional alarm report to phone interface device
Yes
325
Send alarm report to phone interface device
Yes
335
Send disarm report to phone interface device

Fig. 3

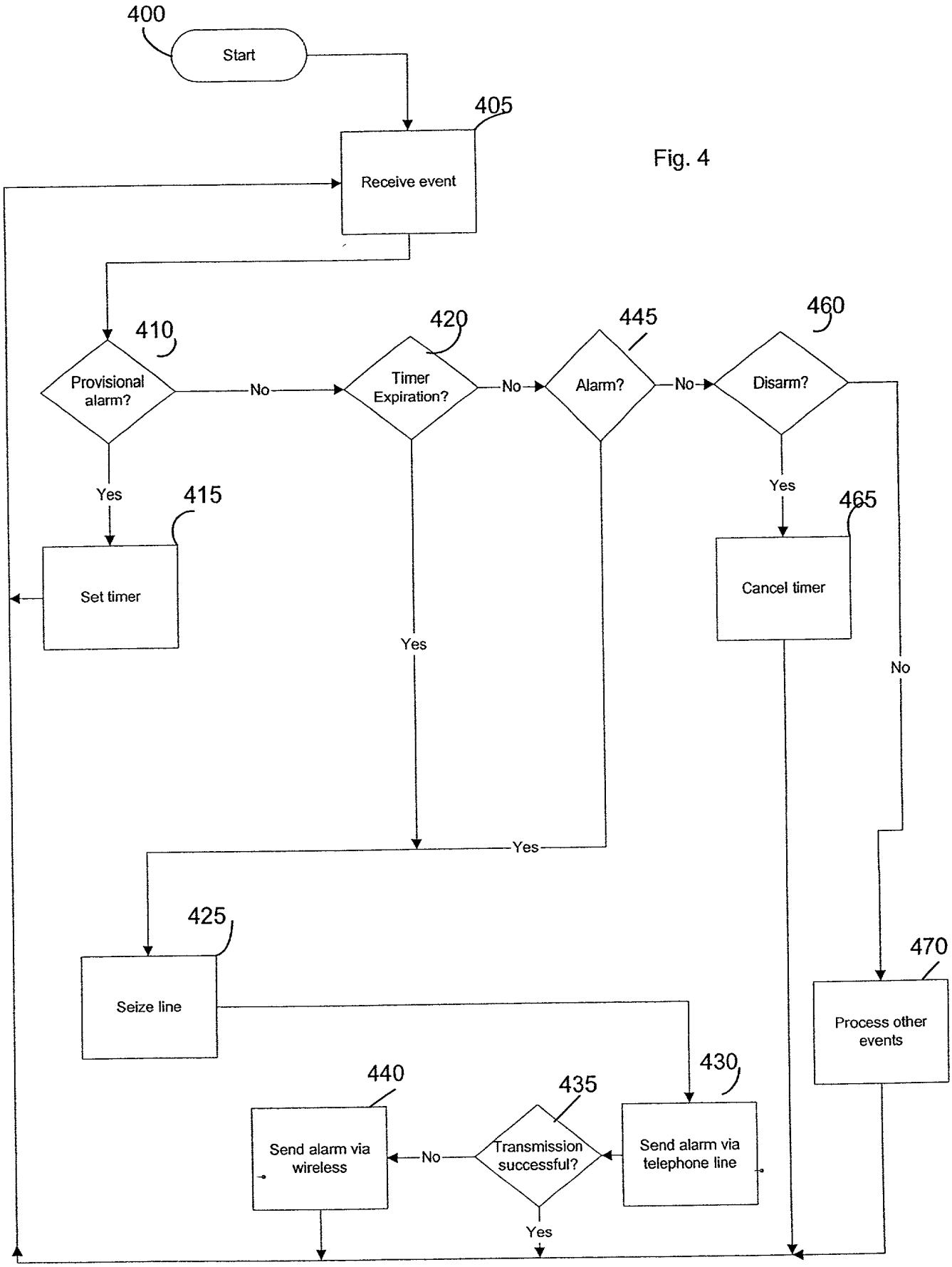

400
Start
405
Receive event
410
Provisional alarm?
No
420
Timer Expiration?
No
445
Alarm?
No
460
Disarm?
Yes
415
Set timer
Yes
Yes
465
Cancel timer
No
Yes
425
Seize line
470
Process other events
430
440
Send alarm via wireless
No
435
Transmission successful?
Send alarm via telephone line
Yes

Fig. 4

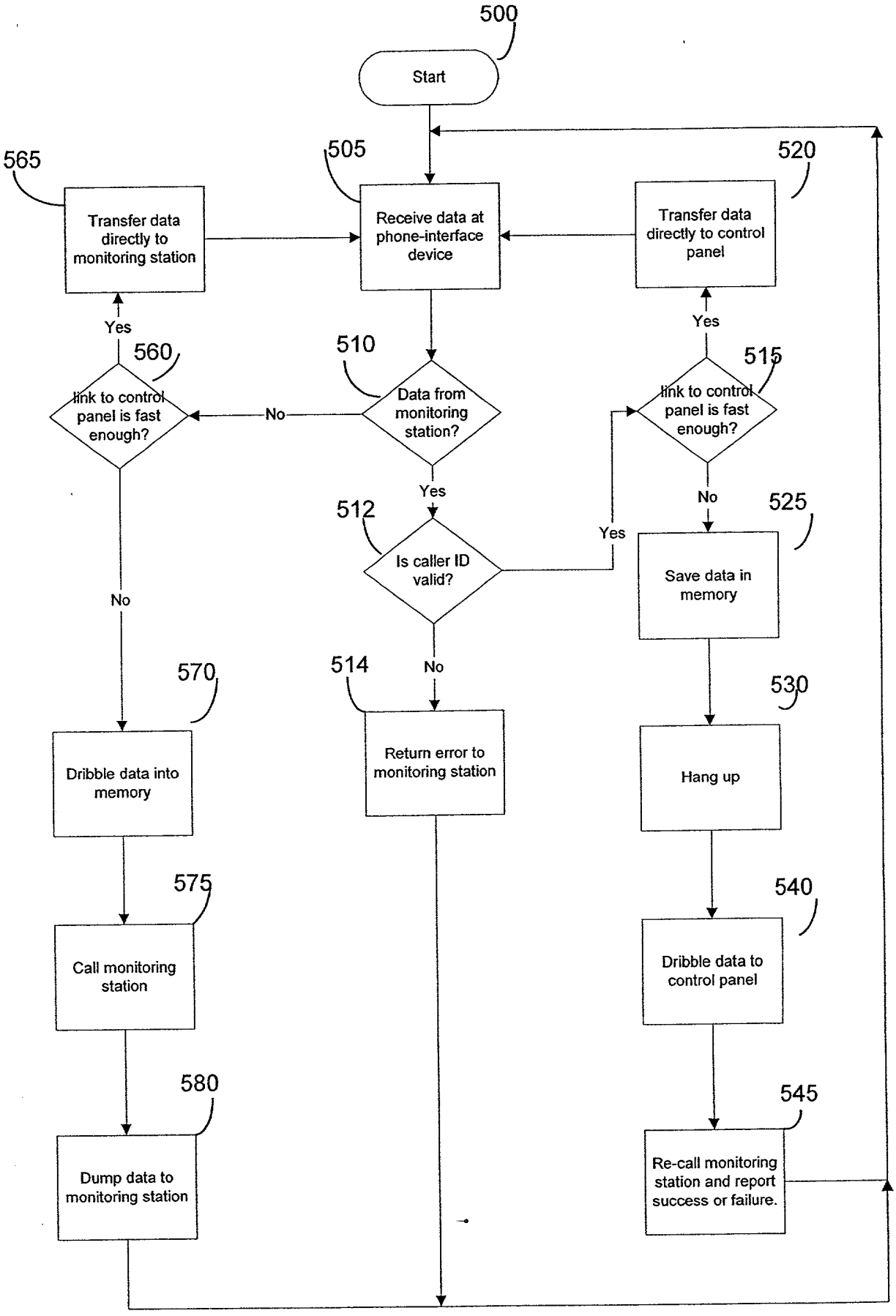

500
Start
505
Receive data at phone-interface device
565
Transfer data directly to monitoring station
520
Transfer data directly to control panel
Yes
560
link to control panel is fast enough?
510
Data from monitoring station?
No
515
link to control panel is fast enough?
Yes
512
Is caller ID valid?
Yes
No
525
Save data in memory
No
570
Dribble data into memory
514
Return error to monitoring station
530
Hang up
575
Call monitoring station
540
Dribble data to control panel
580
Dump data to monitoring station
545
Re-call monitoring station and report success or failure.

Fig. 5

Fig. 6A

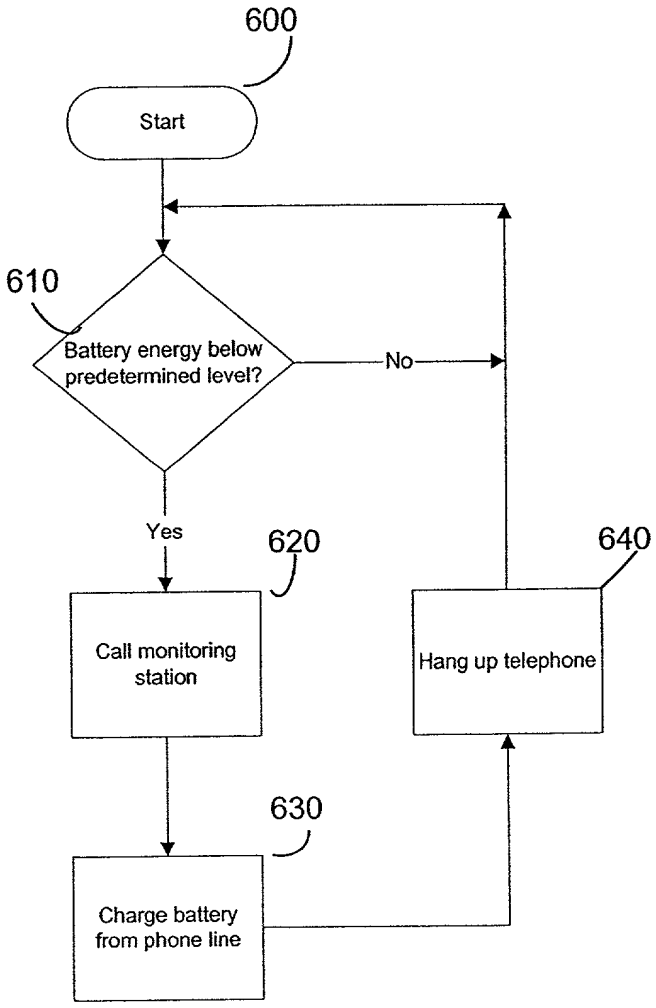
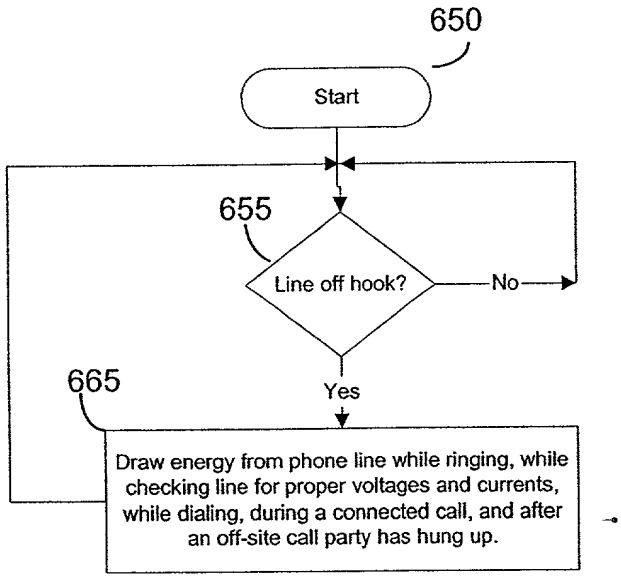

600
Start
610
Battery energy below predetermined level?
No
Yes
620
Call monitoring station
640
Hang up telephone
630
Charge battery from phone line

Fig. 6B


650
Start
655
Line off hook?
No
Yes
665
Draw energy from phone line while ringing, while checking line for proper voltages and currents, while dialing, during a connected call, and after an off-site call party has hung up.

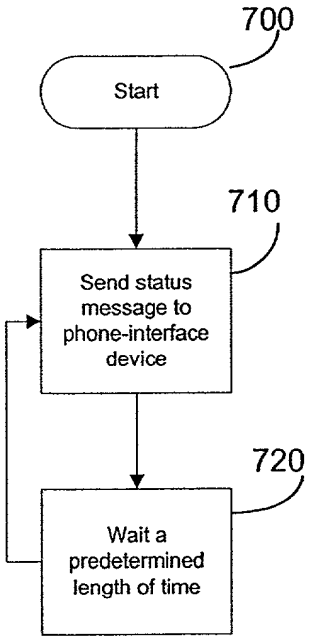

700
Start
710
Send status message to phone-interface device
720
Wait a predetermined length of time

Fig. 7A

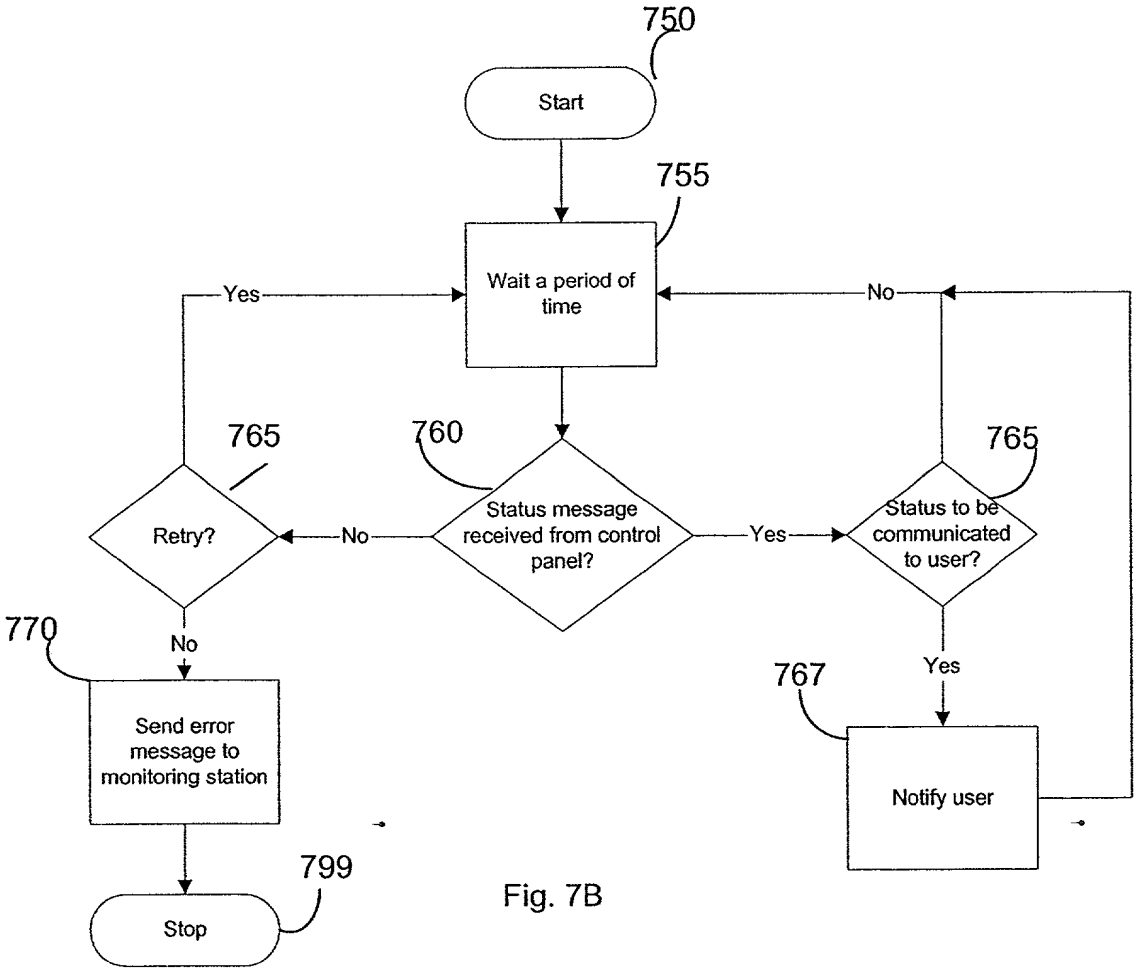

750
Start
755
Wait a period of time
Yes
No
765
760
765
Retry?
No
Status message received from control panel?
Yes
Status to be communicated to user?
770
No
Yes
767
Send error message to monitoring station
Notify user
799
Stop

Fig. 7B

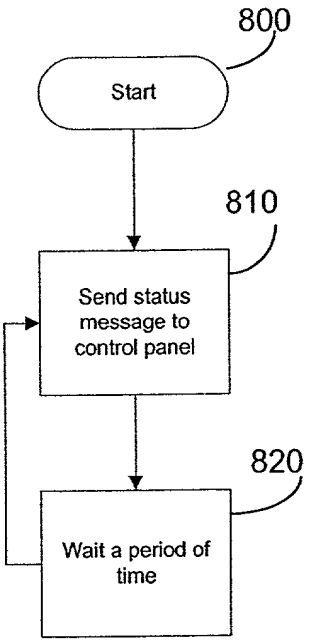

800
Start
810
Send status message to control panel
820
Wait a period of time

Fig. 8A

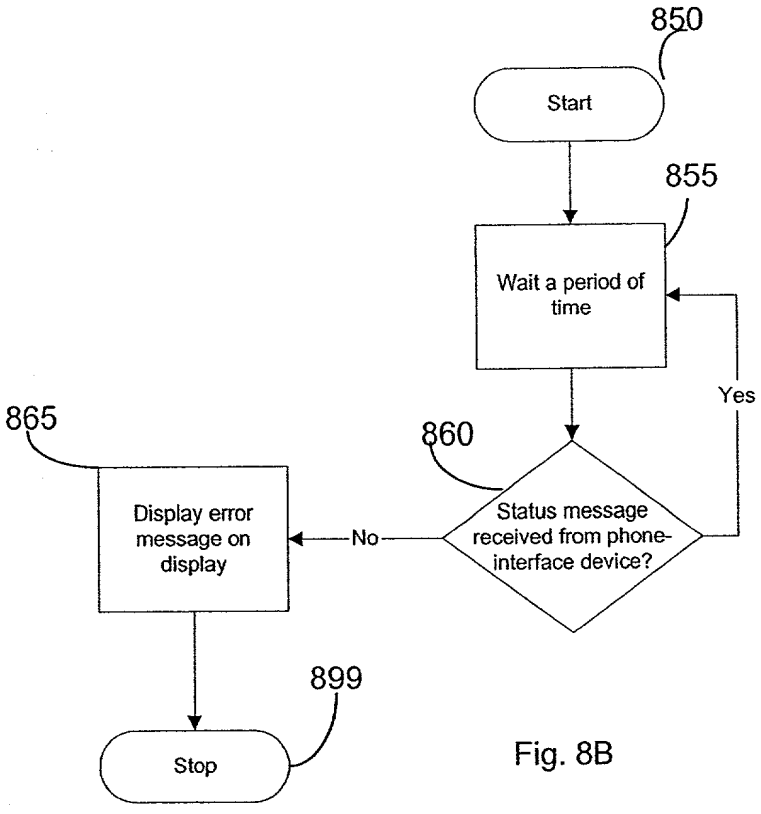

850
Start
855
Wait a period of time
Yes
865
860
Display error message on display
No
Status message received from phone-interface device?
899
Stop

Fig. 8B

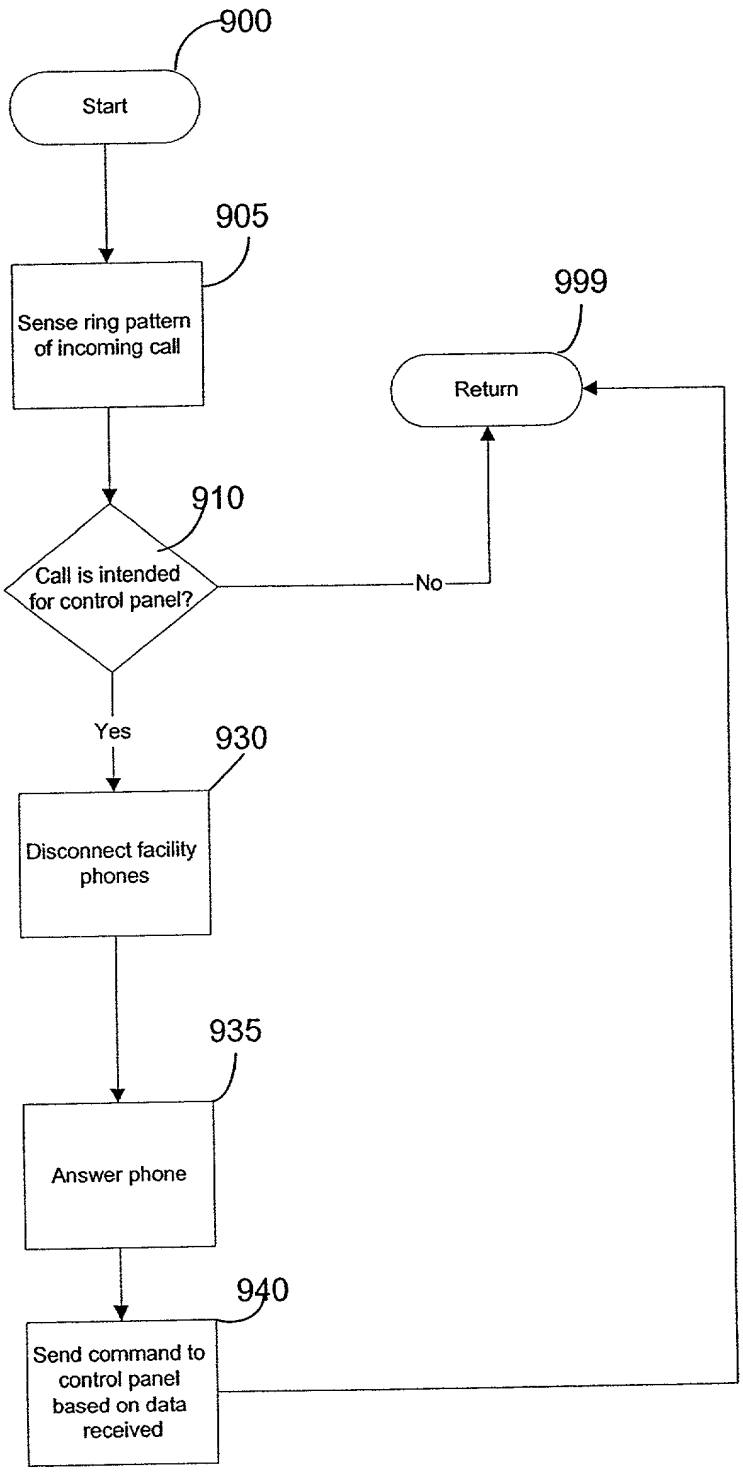

900
Start
905
Sense ring pattern of incoming call
999
Return
910
Call is intended for control panel?
No
Yes
930
Disconnect facility phones
935
Answer phone
940
Send command to control panel based on data received

Fig. 9

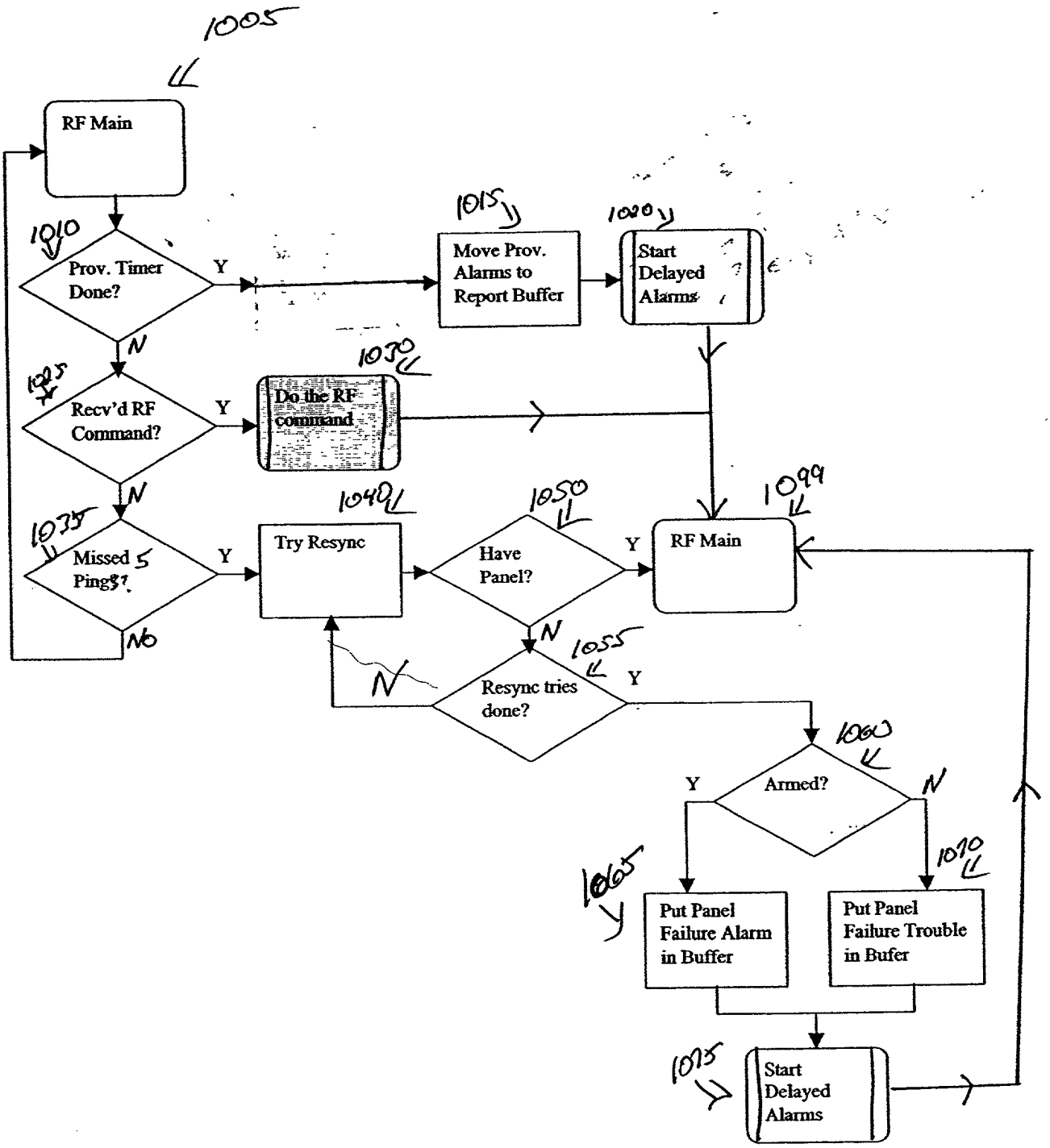

1005
RF Main
1010
Prov. Timer Done?
Y
N
1015
Move Prov. Alarms to Report Buffer
1020
Start Delayed Alarms
1025
Recv'd RF Command?
Y
N
1030
Do the RF command
1035
Missed 5 Pings?
Y
No
1040
Try Resync
1050
Have Panel?
Y
N
1055
Resync tries done?
Y
N
1099
RF Main
1060
Armed?
Y
N
1065
Put Panel Failure Alarm in Buffer
1070
Put Panel Failure Trouble in Bufer
1075
Start Delayed Alarms

Fig. 10

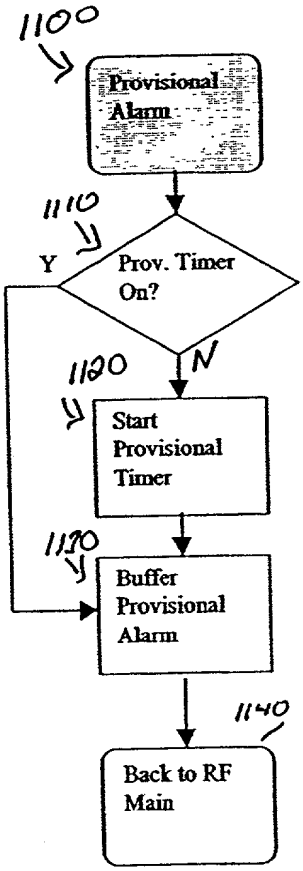

1100
Provisional Alarm
1110
Y
Prov. Timer On?
N
1120
Start Provisional Timer
1130
Buffer Provisional Alarm
1140
Back to RF Main

Fig. 11

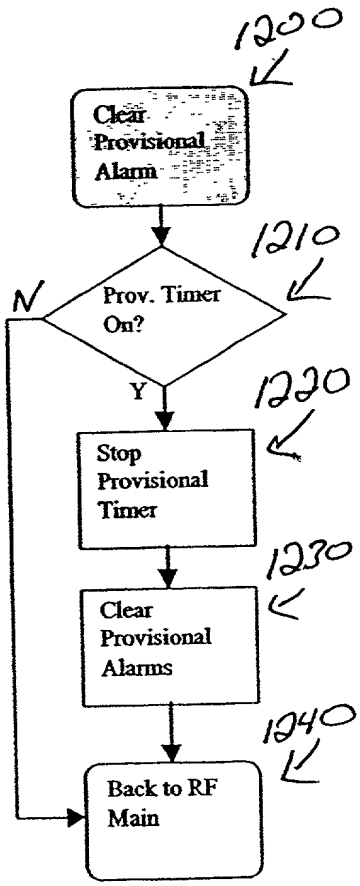

1200
Clear Provisional Alarm
1210
N
Prov. Timer On?
Y
1220
Stop Provisional Timer
1230
Clear Provisional Alarms
1240
Back to RF Main

Fig. 12

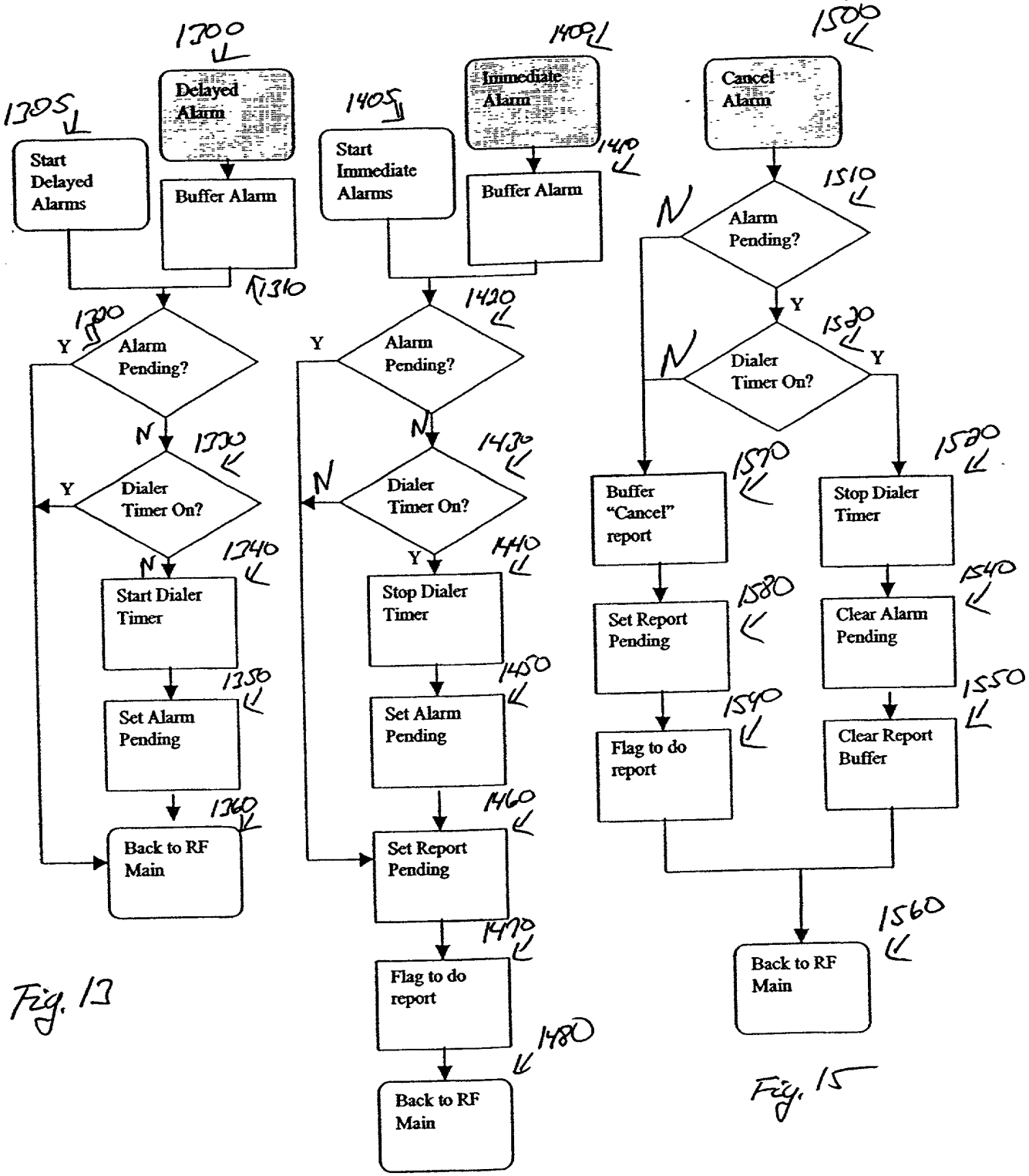


Fig. 13

Fig. 14

Fig. 15

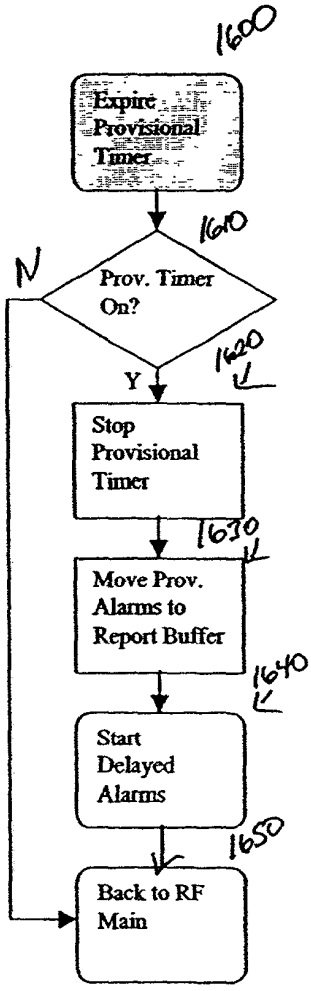


Fig. 16

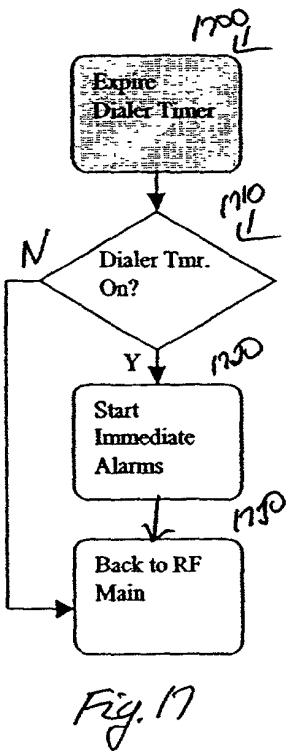


Fig. 17

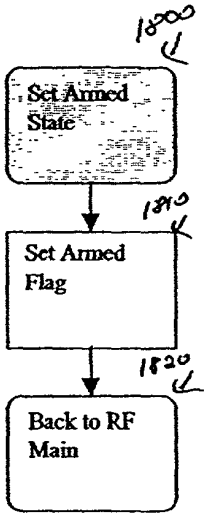


Fig. 18

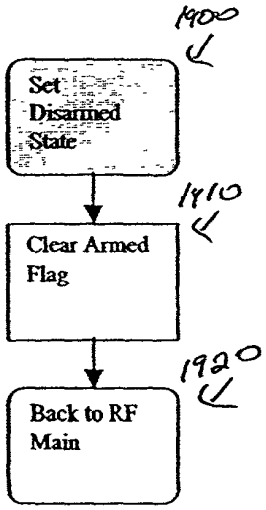


Fig. 19

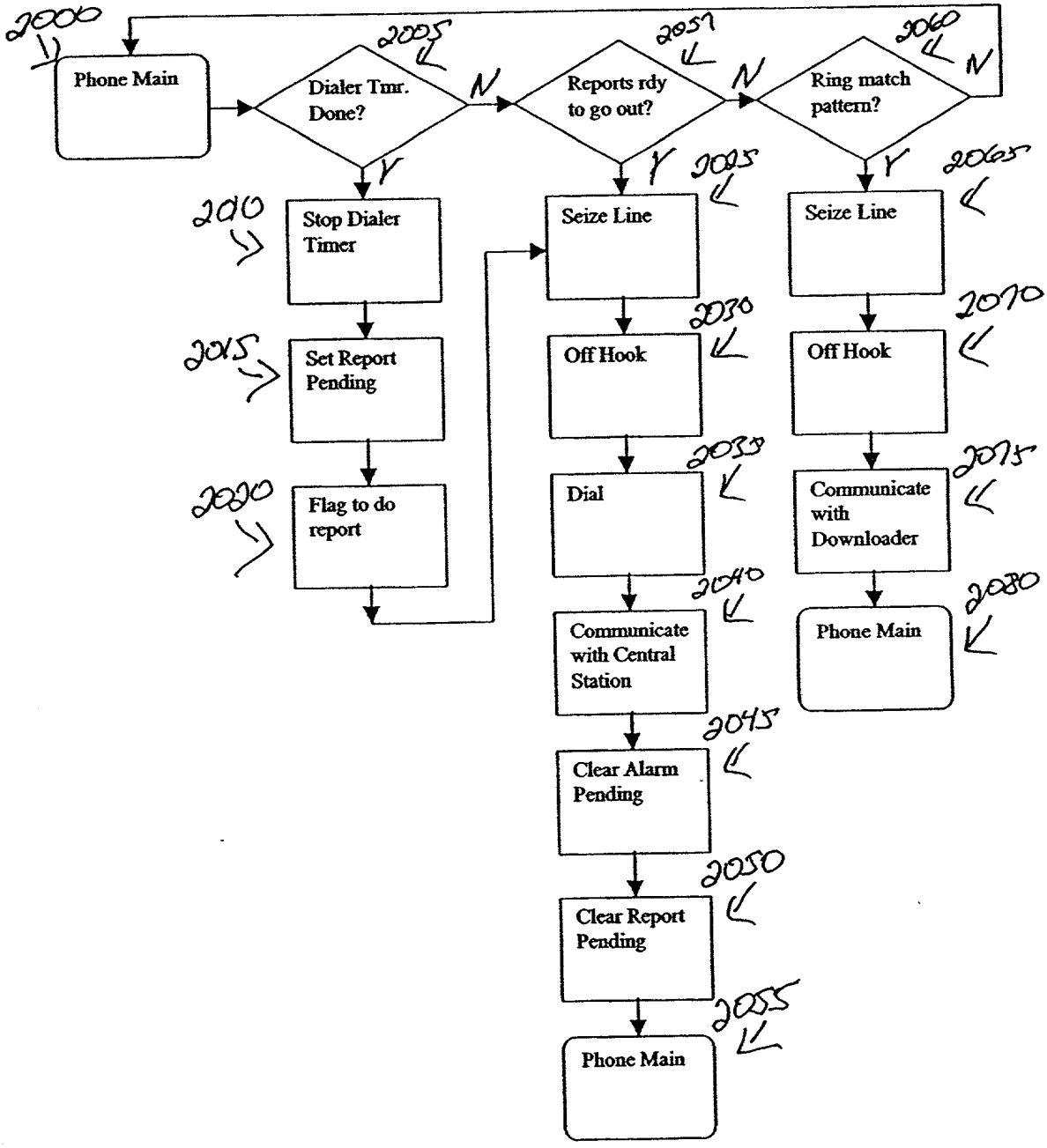

2000
Phone Main
2005
Dialer Tmr. Done?
N
Y
2057
Reports rdy to go out?
N
Y
2060
Ring match pattern?
N
Y
2065
Seize Line
2070
Off Hook
2075
Communicate with Downloader
2080
Phone Main
2025
Seize Line
2030
Off Hook
2035
Dial
2040
Communicate with Central Station
2045
Clear Alarm Pending
2050
Clear Report Pending
2055
Phone Main
2010
Stop Dialer Timer
2015
Set Report Pending
2020
Flag to do report

Fig. 20